9300250

TO ALL TO WHOM THESE PRESENTS SHALL COME; Hioneer Hi-Bred International, Inc. Microis, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A part hereof, and the various requirements of LAW in such cases made and provided have been COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY ${\sf LAW}$, the HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PRPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT X THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9721'

In Testimone Whereof, I have hereunto set my hand and caused the seal of the Mant Haristy Arotection Office to be affixed at the City of Washington, D.C. this thirty-first day of October in the year of our Lord one thousand nine hundred and ninety-five

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 6581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTUI AGRICULTURAL MARKETING SERVI		Application is required in order to determine if a plant variety protection		
APPLICATION FOR PLANT VARIETY PRO	cei Inf	certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).		
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	NOR 3.	VARIETY NAME		
Pioneer Hi-Bred International, Inc	•	EXPERIMENTAL NO.		9721
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (Include area code	·	FOR OFFICIAL USE ONLY
700 Capital Square			PVF	PO NUMBER
400 Locust		(515) 270-358	2	9300250
Des Moines, IA 50309			F	Date
6. GENUS AND SPECIES NAME 7. FAMIL	Y NAME (Botani	nali		gune 16,1993
			, ,	
Glycine max Le 8. CROP KIND NAME (Common Name)	guminos			
Soybean		DATE OF DETERMINATION		1,2020,92
		October 1987	s	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, par	Inership, association, etc.)	я €	7
Corporation	•			s300, 20
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DA	TE OF INCORPORATION	1 V	Date
Iowa		1926	, 6	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN				,
John Grace		Roth (copy)		
7301 NW 62nd Ave., P.O. Box 85	700	Capital Squar	e, 400	O Locust Street
Johnston, IA 50131-0085	Des	•	0309	
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRU	ICTIONS on rever	PHONE (Include :	агва содв):	
a. X Exhibit A, Origin and Breeding History of the Variety.		,		
b. X Exhibit B, Novelty Statement.				
c. X Exhibit C, Objective Description of Variety.				
d. X Exhibit D, Additional Description of Variety.				
e. X Exhibit E, Statement of the Basis of Applicant's Ownership.		6	/11/93	
f. X Seed Sample (2,500 viable untreated seeds). Date Seed Sample in g. X Filing and Examination Fee (\$2,150) made payable to "Treasurer of the contract of th	natied to Plant of the United S	variety Protection Office	,,	 ·
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VAR			ED? (See sec	ction 83(a) of the Plant Variety
Protection Act.) YES (If "YES." answer items 16 and 17 below)		IO," skip to item 18 below)		
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	17. IF "YES" T	O ITEM 16, WHICH CLASSES OF	PRODUCTIO	N BEYOND BREEDER SEED?
NUMBER OF GENERATIONS?		INDATION [REGISTERE	CERTIFIED
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN T	HE U.S.?			
	ent Act. Give da	ie:)		
		·		
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED	IN THE U.S. OR	OTHER COUNTRIES?		
YES (If "YES," give names of countries and dates)				
X NO				
		<u>-</u>		
20. The applicant(s) declare(s) that a viable sample of basic seeds of the	is variety wil	l be furnished with the ap	plication a	nd will be replenished upon
request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually	v reproduced	novel plant variety, and	believe(s)	that the variety is distinct,
uniform, and stable as required in section 41, and is entitled to prote	ection under t	he provisions of section 42	of the Plan	t Variety Protection Act.
Applicant(s) is (are) informed that false representation herein can je	eopardize pro	tection and result in penal	ties.	
SIGNATURE OF APPLICANT (OWNER(S))	CAPACITY OR	TITLE		DATE
	Soybea	an Research Ma	nager	1/2/92
N. phu pace to	0.	TITLE		6/3/73 DATE
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR			

Pioneer Hi-Bred International, Inc. PVP Application Variety 9721 Soybean April 1993

EXHIBIT A

Origin and Breeding History of Variety 9721

Summer	1984	Original cross made at Greenville, MS. Cross number was 2914. Parentage - Pioneer Variety 9791 * Pioneer Variety 9751. 9791 = Gasoy 17 * Tracy 9751 = Centennial * Braxton
Winter	1984-85	F1 plants grown in Hawaii under artificial light.
Summer	1985	F2 advanced to F3 by modified single seed descent at Greenville, MS.
Winter	1985-86	F3 bulks advanced to F5 in two-generation advance by modified single seed descent.
Summer	1986	F5 bulk of 2914 grown in Greenville, MS and 310 plants selected.
Summer	1987	F6 progeny rows of 2914 grown in Greenville, MS. Row G7-11619 selected and composited.
Summer	1988	Yield tested G7-11619 as 2914-19 in three replications as entry 33 in GRD70500.
Summer	1989	Yield tested 2914-19 in five locations in the south as entry 16 in GRA7B100. Plants were grown and harvested as individual plants to start strain purification.
Summer	1990	Yield tested as W2914-19 in twelve locations in the south and the southeast.
Summer	1991	Yield tested as Y2914-19 in eleven locations in the south and the southeast.

Pioneer Hi-Bred International, Inc. PVP Application Variety 9721 Soybean April 1993 Page 2

Summer 1992

Yield tested as XB72A in eleven locations in the south and the southeast. Approximately three acres of parent seed (80 bushels) were produced at Greenville, Mississippi.

December 1992

XB72A was nominated for release and full production and assigned the designation 9721.

Yield trials and seed production in 1992 indicate Variety 9721 is uniform and stable. As with other soybean varieties, variants can occur for almost any character during the course of repeated sexual production.

Pioneer Hi-Bred International, Inc. PVP Application Variety 9721 Soybean April 1993

EXHIBIT B

Variety 9721 is most similar to Braxton, Coker variety 6738, Colquitt, DP726, DP3733, Gregg, H7126, Howard, Pioneer variety 9761, Ransom, and Wright.

However, variety 9721 differs from DP726, Gregg, H7126, and Howard in resistance to stem canker [caused by <u>Diaporthe</u> <u>phaseolorum</u> (Cke. & Ell.) Sacc. var. <u>caulivora</u> Athow & Caldwell]. 9721 is resistant, whereas DP726, Gregg, H7126, and Howard are susceptible.

Variety 9721 differs from Braxton, Coker variety 6738, Colquitt, DP3733, Pioneer variety 9761, and Ransom in resistance to Phytophthora root rot race 2 [caused by Phytophthora megasperma Drechs. f. sp. glycinea Kuan & Erwin]. Variety 9721 is resistant, whereas Braxton, Coker variety 6738, DP3733, Pioneer variety 9761, Ransom, and Colquitt are susceptible.

Variety 9721 differs from Wright in resistance to the frogeye leafspot fungus [Cercospora sojina Hara (syn. C. daizu Miura)]. Variety 9721 is susceptible, whereas Wright is resistant.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF ARRUPANTION	TEMPORARY DESIGNATION VARIETY NAME
NAME OF APPLICANT(S) Pioneer Hi-Bred International, Inc.	9721
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod	e) FOR OFFICIAL USE ONLY PYPO NUMBER
700 Capital Square 400 Locust	9300250
Des Moines, IA 50309	
in your answer is fewer than the number of boxes provided,	riety in the features described below. When the number of significant digits place a zero in the first box when number is 9 or less (e.g., 0 9). uate soybean variety description. Other characters should be described
1. SEED SHAPE:	$oldsymbol{\mathbb{O}}$
2 L W	$\Big _{\mathbf{T}}\Big $
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	1
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	
2 1 = Duil ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	oy'; 'Gasoy 17')
4. SEED SIZE: (Mature Seed)	
1 4 Grams per 100 seeds	
5. HILUM COLOR: (Mature Seed)	
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)	
1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:	
1 = Low 2 = High	
8. SEED PROTEIN ELECTROPHORETIC BAND:	
1 = Type A (SP1 ^a) $2 = \text{Type B (SP1}^b)$	
★ 9. HYPOCOTYL COLOR:	
1 = Green only ('Evans'; 'Davis') 2 = Green wi 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71' 4 = Dark Purple extending to unifoliate leaves ('Hodgson'	th bronze band below cotyledons ('Woodworth'; 'Tracy')) ; 'Coker Hampton 266A')
10. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)

	11.	LEAFLET SIZE:	
	· ·.	2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
	12.	LEAF COLOR:	
		1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
*	13.	FLOWER COLOR:	
		2 1 = White 2 = Purple 3 = White with purple throat	_
*	14.	POD COLOR:	
		1 = Tan 2 = Brown 3 = Black	
*	15.	PLANT PUBESCENCE COLOR:	
		2 1 = Gray 2 = Brown (Tawny)	
	16.	PLANT TYPES:	
		1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
*	17.	PLANT HABIT:	<u> </u>
	•	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
*	18.	MATURITY GROUP:	
*	18.	MATURITY GROUP: 1 = 000	
		1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 0 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	
		1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V O 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
*	19.	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 0 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES:	
*		1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V O 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
*	19.	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 0 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES:	
*	19.	1 = 000	
*	19. ★	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea)	
*	19. ★	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci)	
*	19. * *	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES:	
*	19. * *	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: 0 Brown Spot (Septoria glycines)	
*	19. × × ×	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: 0 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	
*	19. × × ×	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: 0 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) 0 Race 1 0 Race 2 0 Race 3 0 Race 4 1 Race 5 Other (Specify)	
*	19. × × ×	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomones phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: 0 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) 0 Race 1 0 Race 2 0 Race 3 0 Race 4 1 Race 5 Other (Specify) 2 Target Spot (Corynespora cassiicola)	
*	19. × × ×	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) BACTERIAL DISEASES: 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis) 2 Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) FUNGAL DISEASES: 0 Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) 0 Race 1 0 Race 2 0 Race 3 0 Race 4 1 Race 5 Other (Specify) 2 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica)	

Page 2 of 4

19. DISE	ASE REACTION:	(Enter 0 = Not Te	ited; 1 = Susceptible; 2 = R	esistant) (Continued)				
FU	NGAL DISEASES	: (Continued)						
* 1	Pod and Stem	Blight <i>(Diaporthe p</i>	haseolorum var; sojae)			•		
0	Purple Seed St	ain (Cercospora kik	uchii)					
1	Rhizoctonia R	oot Rot (<i>Rhizoctor</i>	ia solani)					
	Phytophthora	Rot (Phytophthora	megasperma var. sojae)					
★ 2	Race 1	2 Race 2	2 Race 3 2	Race 4 2 Race 5	0 Race 6 2	Race 7		
2	Race 8	2 Race 9	2 Other (Specify) R	10, R13, R16, R17,	, R21, R25	·		
VII	RAL DISEASES:				·			
1	Bud Blight (To	bacco Ringspot Vir	us)					
1	Yellow Mosaic	(Bean Yellow Mosa	sic Virus)					
* 1	Cowpea Mosaid	c (Cowpea Chloroti	c Virus)					
1	Pod Mottle (Be	ean Pod Mottle Virt	es)					
* 1	Seed Mottle (S	oybean Mosaic Virt	as)					
. NE	- MATODE DISEAS	SES:				•		
	Soybean Cyst I	Nematode <i>(Heterod</i>	era glycines)			•		
★ 0	Race 1	0 Race 2	1 Race 3 1	Race 4 Other (S)	pecify)	<u> </u>		
0	Lance Nemato	de (<i>Hoplolaimus Co</i>	olombus)					
* 2	Southern Root	Knot Nematode (/	Meloidogyne incognital	·				
Northern Root Knot Nematode (Meloidogyne Hapla)								
0	Peanut Root K	inot Nematode <i>(Me</i>	loidogyne arenaria)			4		
0	Reniform Nem	atode (<i>Rotylenchu</i>	lus reniformis)					
	OTHER DISE	ASE NOT ON FOR	M (Specify):					
	٦.		= Not Tested; 1 = Suscept	ible; 2 = Resistant)		•		
* [0	j (ion cinorosis	on Calcareous Soil				•		
	႕ 	<u> </u>						
	٦	Enter 0 = Not Test	ed; 1 = Susceptible; 2 = Re	sistant)				
	Mexican Bean	Beetle (<i>Epilachna v</i>	arivestis)		•			
	วี	opper (Empoasca fa						
	Other (Specify	J				· · · · · · · · · · · · · · · · · · ·		
22. INDI	CATE WHICH VA	RIETY MOST CLC	SELY RESEMBLES THA	SUBMITTED.				
сн	ARACTER	NAME	OF VARIETY	CHARACTER	NAME OF VARI	ETY		
Plant	Shape	9761	***	Seed Coat Luster	9761			
Leaf S	Shape	9761		Seed Size	9761			
Leaf (9761		Seed Shape	9761			
Leaf S	Size	9761		Seedling Pigmentation	9761			
		1		1				

FORM LMGS-470-57 (6-83)

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
		SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
9721 Submitted	142.9	2.6	87.6			44.5	21.2	14.1	
9761 Name of Similar Variety	143.9	2.4	90.4			42.3	24.0	13.3	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Pioneer Hi-Bred International, Inc. PVP Application Variety 9721 Soybean April 1993

Exhibit D: In Exhibit C we have identified 9721 as susceptible to pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle, and seed mottle. This does not mean that 9721 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 9721 to be immune to them. Therefore, we have chosen to be conservative and have identified the line as 'susceptible'.

Table 1. Isozyme information for 9721

<u>ACO2</u>	<u>ACO3</u>	ACO4	<u>ACP</u>	DIA	ENP	IDH1	IDH2	MDH	MPI	PGM	PHI
2	1	1	A	A	В	2	1	В	A	2	2

9721 is an early group VII variety. If group VII maturities are divided in tenths, the relative maturity for 9721 is 7.2.

Exhibit E: Variety 9721 was developed by Pioneer Hi-Bred International, Inc., for which it solicits a certificate of protection.